



PIEMR HALF-YEARLY RESEARCH REPORT (July-Dec 2020)

PATENTS	5	INTERNATIONAL COLLABORATIONS: 1. Drexel University (USA) 2. Erasmus University (the Netherland) 3. Wageningen University (the Netherland) 4. Rutgers University (USA) 5. Essex University (UK) 6. Quebec University (Canada) 7. Haifa (Israel) 8. Leaders Institute (Australia) 9. Gadjah Mada University (Indonesia) 10. National University of Singapore (Singapore) 11. Malaysia-Japan Institute of Technology (Malaysia) 12. Indonesian Institute of Sciences (Indonesia) 13. King Mongkut's University of Technology North Bangkok (Thailand)
INTERNATIONAL JOURNALS	49	
NATIONAL JOURNALS	11	
BOOK/CHAPTERS	8	
PAPER PRESENTED IN NATIONAL CONFERENCES	15	
PAPER PRESENTED IN INTERNATIONAL CONFERENCES	23	
FDP/SEMINARS	43	
GRANTS NATIONAL APPLIED TO DST	6	
GRANTS NATIONAL SANCTIONED - 2	27 Lakhs	
GRANTS INTERNATIONAL SANCTIONED	1.6 Lakhs	
GRANT APPLIED- DST – 6 Proposals	4.5Crores	
GRANT APPLIED- AICTE (20 th DEC)	50 Lakhs	
AWARDS AND RECOGNITIONS	7	
INTERNATIONAL COLLABORATIONS	10	
NATIONAL COLLABORATIONS (2 Confirmed+3 In process)	5	

PATENTS:

1. Voice Synthesis Robots through Natural Language Processing for Voice Interactive Robots
2. An automatic system to safeguard the life of a two-wheeler rider using accident resistant technology
3. Smart Disease Detection Through 'Germica' a Germ Detection Machine: Adaptations during COVID-19
4. IoT based Agrobot
5. An Automatic Image Based Mango Quality Prediction Estimation and Selling Mobile Platform

NATIONAL COLLABORATIONS:

1. IIT, Kottayam (Kerala)
2. Vellore Institute of Technology (VIT), Vellore
3. IIM Indore*
4. IIT Indore*
5. Indian Institute of Soybean Research (IISR, Indore)*
6. IIT Indore *